BRAIN RESEARCH MOLECULAR BRAIN RESEARCH

VOL. 22 NOS. 1-4

CONTENTS

MARCH 1994

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Announcement from the Publisher	v
Guidelines for the submission of manuscripts	vii
Research Reports	
Increased basic fibroblast growth factor mRNA following contusive spinal cord injury	
P. Follesa, J.R. Wrathall and I. Mocchetti (USA) Concurrent immediate early gene induction by epileptic seizures in heterotopic cortical grafts and neocortex	1
S. Bele, P. Gass, T. Herdegen, R. Bravo and M. Kiessling (FRG, USA)	9
Early induction of rat brain tryptophan hydroxylase (TPH) mRNA following parachlorophenylalanine (PCPA) treatment	
D.H. Park, D.M. Stone, H. Baker, K.S. Kim and T.H. Joh (USA)	20
Differential expression of tyrosine hydroxylase and membrane dopamine transporter genes in subpopulations of dopaminergic neurons of	
the rat mesencephalon V. Blanchard, R. Raisman-Vozari, S. Vyas, P.P. Michel, F. Javoy-Agid, G. Uhl and Y. Agid (France, USA)	29
Molecular cloning of a resiniferatoxin-binding protein	
N.N. Ninkina, J.J. Willoughby, M.M. Beech, P.R. Coote and J.N. Wood (UK)	39
Identification of α_2 adrenergic receptor gene expression in sympathetic neurones using polymerase chain reaction and in situ	
hybridization	40
M. Vidovic, D. Cohen and C.E. Hill (Australia) Corticosterone-responsive mRNAs in primary rat astrocytes	49
M.K. O'Banion, D.A. Young and M.C. Bohn (USA)	57
Functional expression of Ca ²⁺ -mobilizing opioid receptors in Xenopus oocytes injected with rat brain mRNA	5,
S. Kaneko, J. Yuasa, H. Takahashi and M. Satoh (Japan)	69
Transient global ischemia induces dynamic changes in the expression of bFGF and the FGF receptor	
M. Endoh, W.A. Pulsinelli and J.A. Wagner (USA, Japan)	76
Effects of nitroprusside and redox reagents on NMDA receptors expressed in <i>Xenopus</i> oocytes A. Omerovic, J.P. Leonard and S.R. Kelso (USA)	89
Effects of morphine on hypothalamic tyrosine hydroxylase mRNA levels in dopaminergic neurons and on preoptic DOPAC levels	89
measured by microdialysis	
J. Molnar, JR. He and C.A. Barraclough (USA)	97
Long term alteration in tyrosine hydroxylase mRNA levels in rat locus coeruleus after intraventricular injection of 5,6-dihydroxytrypta- mine	
F. Sturtz, D. Rollet, N. Faucon Biguet, J. Mallet and M. Buda (France)	107
Glutamine synthetase modulation in the brain of rats subjected to deprivation of paradoxical sleep	
M. Sallanon-Moulin, M. Touret, M. Didier-Bazes, V. Roudier, C. Fages, M. Tardy and M. Jouvet (France) Protein-DNA interactions in the promoter region of the amyloid precursor protein (APP) gene in human neocortex	113
W.J. Lukiw, E.I. Rogaev, L. Wong, G. Vaula, D.R.C. McLachlan and P. St George Hyslop (Canada, Russia, Italy)	121
Reduction in dopamine transporter mRNA after cessation of repeated cocaine administration	
C. Cerruti, N.S. Pilotte, G. Uhl and M.J. Kuhar (USA)	132
Localization of mRNA for protein phosphatase 2A in the brain of adult rats	
H. Abe, H. Shima, M. Sekiguchi, H. Guo, M. Nagao, S. Tamura and H. Kondo (Japan)	139
Subunit-specific enhancement of glutamate receptor responses by zinc J.C. Dreixler and J.P. Leonard (USA)	144
Localization of CNTF immunoreactivity to neurons and astroglia in the CNS	144
J.T. Henderson, N.A. Seniuk and J.C. Roder (Canada)	151
Presence of N-methyl-D-aspartate (NMDA) receptors in neuroblastoma × glioma hybrid NG108-15 cells-analysis using [45Ca ²⁺]influx and [3H]MK-801 binding as functional measures	
S. Ohkuma, M. Katsura, DZ. Chen, SH. Chen and K. Kuriyama (Japan)	166
The identification of NP25: a novel protein that is differentially expressed by neuronal subpopulations	
WZ. Ren, G.Y.K. Ng, RX. Wang, P.H. Wu, B.F. O'Dowd, D.H. Osmond, S.R. George and CC. Liew (Canada)	173

(contents continued on p. 350)



0169-328x(199403)22:1/4:1-0

BRAIN RESEARCH MOLECULAR BRAIN RESEARCH

VOL. 22 NOS. 1-4

CONTENTS

MARCH 1994

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Announcement from the Publisher	v
Guidelines for the submission of manuscripts	vii
Research Reports	
Increased basic fibroblast growth factor mRNA following contusive spinal cord injury	
P. Follesa, J.R. Wrathall and I. Mocchetti (USA) Concurrent immediate early gene induction by epileptic seizures in heterotopic cortical grafts and neocortex	1
S. Bele, P. Gass, T. Herdegen, R. Bravo and M. Kiessling (FRG, USA)	9
Early induction of rat brain tryptophan hydroxylase (TPH) mRNA following parachlorophenylalanine (PCPA) treatment	
D.H. Park, D.M. Stone, H. Baker, K.S. Kim and T.H. Joh (USA)	20
Differential expression of tyrosine hydroxylase and membrane dopamine transporter genes in subpopulations of dopaminergic neurons of	
the rat mesencephalon V. Blanchard, R. Raisman-Vozari, S. Vyas, P.P. Michel, F. Javoy-Agid, G. Uhl and Y. Agid (France, USA)	29
Molecular cloning of a resiniferatoxin-binding protein	
N.N. Ninkina, J.J. Willoughby, M.M. Beech, P.R. Coote and J.N. Wood (UK)	39
Identification of α_2 adrenergic receptor gene expression in sympathetic neurones using polymerase chain reaction and in situ	
hybridization	40
M. Vidovic, D. Cohen and C.E. Hill (Australia) Corticosterone-responsive mRNAs in primary rat astrocytes	49
M.K. O'Banion, D.A. Young and M.C. Bohn (USA)	57
Functional expression of Ca ²⁺ -mobilizing opioid receptors in Xenopus oocytes injected with rat brain mRNA	5,
S. Kaneko, J. Yuasa, H. Takahashi and M. Satoh (Japan)	69
Transient global ischemia induces dynamic changes in the expression of bFGF and the FGF receptor	
M. Endoh, W.A. Pulsinelli and J.A. Wagner (USA, Japan)	76
Effects of nitroprusside and redox reagents on NMDA receptors expressed in <i>Xenopus</i> oocytes A. Omerovic, J.P. Leonard and S.R. Kelso (USA)	89
Effects of morphine on hypothalamic tyrosine hydroxylase mRNA levels in dopaminergic neurons and on preoptic DOPAC levels	89
measured by microdialysis	
J. Molnar, JR. He and C.A. Barraclough (USA)	97
Long term alteration in tyrosine hydroxylase mRNA levels in rat locus coeruleus after intraventricular injection of 5,6-dihydroxytrypta- mine	
F. Sturtz, D. Rollet, N. Faucon Biguet, J. Mallet and M. Buda (France)	107
Glutamine synthetase modulation in the brain of rats subjected to deprivation of paradoxical sleep	
M. Sallanon-Moulin, M. Touret, M. Didier-Bazes, V. Roudier, C. Fages, M. Tardy and M. Jouvet (France) Protein-DNA interactions in the promoter region of the amyloid precursor protein (APP) gene in human neocortex	113
W.J. Lukiw, E.I. Rogaev, L. Wong, G. Vaula, D.R.C. McLachlan and P. St George Hyslop (Canada, Russia, Italy)	121
Reduction in dopamine transporter mRNA after cessation of repeated cocaine administration	
C. Cerruti, N.S. Pilotte, G. Uhl and M.J. Kuhar (USA)	132
Localization of mRNA for protein phosphatase 2A in the brain of adult rats	
H. Abe, H. Shima, M. Sekiguchi, H. Guo, M. Nagao, S. Tamura and H. Kondo (Japan)	139
Subunit-specific enhancement of glutamate receptor responses by zinc J.C. Dreixler and J.P. Leonard (USA)	144
Localization of CNTF immunoreactivity to neurons and astroglia in the CNS	144
J.T. Henderson, N.A. Seniuk and J.C. Roder (Canada)	151
Presence of N-methyl-D-aspartate (NMDA) receptors in neuroblastoma × glioma hybrid NG108-15 cells-analysis using [45Ca ²⁺]influx and [3H]MK-801 binding as functional measures	
S. Ohkuma, M. Katsura, DZ. Chen, SH. Chen and K. Kuriyama (Japan)	166
The identification of NP25: a novel protein that is differentially expressed by neuronal subpopulations	
WZ. Ren, G.Y.K. Ng, RX. Wang, P.H. Wu, B.F. O'Dowd, D.H. Osmond, S.R. George and CC. Liew (Canada)	173

(contents continued on p. 350)



0169-328x(199403)22:1/4:1-0

(contents continued)

Distribution and regulation of calmodulin mRNAs in rat brain	
M.N. Gannon and B.S. McEwen (USA)	186
Human taste cells express the G protein α-gustducin and neuron-specific enolase	
S. Takami, T.V. Getchell, S.K. McLaughlin, R.F. Margolskee and M.L. Getchell (USA)	193
Adenosine A _{2a} receptor mRNA is expressed by enkephalin cells but not by somatostatin cells in rat striatum: a co-expression study	204
S.J. Augood and P.C. Emson (UK)	204
Autoradiographic localization and quantitative determination of specific binding sites of anxiolytic homophthalazines (formerly called 2,3-benzodiazepines) in the striato-pallido-nigral system of rats	
E.J. Horváth, M. Palkovits, Z. Lenkei, K.I. Gyüre, M.I.K. Fekete and P. Arányi (Hungary)	211
Synaptic vesicular monoamine transporter expression: distribution and pharmacologic profile	211
A.M. Gonzalez, D. Walther, A. Pazos and G.R. Uhl (USA, Spain)	219
NMDA receptor-mediated excitoprotection of cultured cerebellar granule neurons fails to alter glutamate-induced expression of c-fos and	219
c-ian mRNAs	
M. Weller, P. Montpied and S.M. Paul (USA)	227
Selective expression of one Ca ²⁺ -inhibitable adenylyl cyclase in dopaminergically innervated rat brain regions	
N. Mons and D.M.F. Cooper (USA, France)	236
Short Communications	
Expression of nitric oxide synthase and colocalisation with Jun, Fos and Krox transcription factors in spinal cord neurons following	
noxious stimulation of the rat hindpaw	
T. Herdegen, S. Rüdiger, B. Mayer, R. Bravo and M. Zimmermann (FRG, Austria, USA)	245
Enhanced expression of the blood-brain barrier GLUT1 glucose transporter gene by brain-derived factors	
R.J. Boado, L. Wang and W.M. Pardridge (USA)	259
Modulation of prion protein gene expression by growth factors in cultured mouse astrocytes and PC-12 cells	
F. Lazarini, P. Castelnau, JF. Chermann, JP. Deslys and D. Dormont (France)	268
Sodium channel mRNAs I, II and III in the CNS: cell-specific expression	
J.A. Black, S. Yokoyama, H. Higashida, B.R. Ransom and S.G. Waxman (USA, Japan)	275
Peripheral deafferentation alters calcitonin gene-related peptide mRNA expression in visceral sensory neurons of the nodose and petrosal	
ganglia	
FL. Huang, H. Zhuo, C. Sinclair, M.E. Goldstein, J.T. McCabe and C.J. Helke (USA)	290
Increased expression of mRNA encoding calbindin-D28K, the glucose-regulated proteins, or the 72 kDA heat-shock protein in three models of acute CNS injury	
D.H. Lowenstein, R.P. Gwinn, M.S. Seren, R.P. Simon and T.K. McIntosh (USA, Italy)	299
Regulation of tyrosine hydroxylase gene expression in depolarized non-transformed bovine adrenal medullary cells: second messenger systems and promoter mechanisms	
M.K. Stachowiak, A. Goc, JS. Hong, A. Poisner, HK. Jiang and E.K. Stachowiak (USA)	309
GABA _A and glutamate receptor subunit mRNAs in cortex of mice chemically kindled with FG 7142	
E. Lewin, V. Bleck, J.E. Dildy-Mayfield and R.A. Harris (USA)	320
RNA editing of a human glutamate receptor subunit	
JH.J. Cha. S.L. Kinsman and M.V. Johnston (USA)	323
Nitric oxide synthase mRNA expression in human subthalamic nucleus, striatum and globus pallidus: implications for basal ganglia	
function	
A.P. Nisbet, O.J.F. Foster, A. Kingsbury, A.J. Lees and C.D. Marsden (UK)	329
Electrical stimulation of the central nucleus of the amygdala induces fos-like immunoreactivity in the hypothalamus of the rat: a	
quantitative study	
T. Petrov, J.H. Jhamandas and T.L. Krukoff (Canada)	333
Distinct regulation of sodium channel types I, II and III following nerve transection	
Y. Iwahashi, T. Furuyama, S. Inagaki, Y. Morita and H. Takagi (Japan)	34
Author Index	34